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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/631,279

07/31/2003

Keith A. Raniere

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EXAMINER

UTAMA, ROBERT J

ART UNIT

PAPER NUMBER

3714

MAIL DATE

DELIVERY MODE

09/30/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/631,279	Applicant(s) RANIERE, KEITH A.	
	Examiner ROBERT J. UTAMA	Art Unit 3714	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ____ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) ____ is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☐ Claim(s) ____ is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

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\DETAILED ACTION

Status of the application

1. The status of the application are as follow: claim 1, 4-8 and 17-20 are still pending, claim 2-3 are cancelled and claim 9-16, 21-30 have been withdrawn.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 1, 4-8 and 17-20 rejected under 35 U.S.C. 103(a) as being unpatentable over Hall-Tipping US 5,001,632 and further in view of Stratton et al.

Claim 1: The Hall-Tipping reference provides a teaching of a method of comprising of:

determining a point of efficiency of a trainable subject with at least one parameter (see Hall-Tipping col. 6:1:-9, col. 5:35-45 “optimal level of activity”); determining a range of tolerance surrounding the point of efficiency (see Hall-Tipping col. 5:35-45 Upper and lower heart rate and FIG. 2 Maximum and Minimum aerobic heart rate); training said trainable subject within said range of tolerance of said point of efficiency with respect to a state of accommodation (see col. 6:9-23). The Hall-Tipping reference provides a teaching where the efficiency is determined by a linear proportional rate of change in the at least one parameter (see FIG 3 and col. 5:40-60). The Hall-Tipping reference does not provide teaching of training said subject until exhaustion occurs. However, the Stratton et al reference provides a teaching of training said subject until exhaustion occurs (see Stratton et al page 1649 item “Study Protocol). Therefore, it would have been obvious to one of ordinary skilled in the art to include the feature of of

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training said subject until exhaustion occurs, as taught by Stratton et al, would increase the user's peak cardiac output (see Stratton et al page 1653).

Claim 4 and 18: The Hall-Tipping reference provides a teaching of is one of a physical parameter (see col. 4:30-37 "heart rate").

Claim 5 and 19: The Hall Tipping reference does not provide a teaching of at least one physical parameter of blood pressure. However, the Stratton teaches that one of the physical parameter selected is the subject blood pressure (see Stratton page 1649 under the heading "Data Collection and Processing"). Therefore, it would have been obvious to one of ordinary skilled in the art to include the feature of least one physical parameter of blood pressure, as taught by Stratton et al, because it would enable the system to better analyze the user's physical activity level.

Claim 6 and 20: The Hall-Tipping reference provides a teaching of is one of a physical parameter of a heart rate (see col. 4:30-37 "heart rate").

Claim 7: The Hall-Tipping reference provides a teaching where the parameter observed by the a signal of physical motion (see col. 3:65-4:5 "speed sensor monitoring the speed of movement").

Claim 8: The Hall-Tipping reference provides a teaching of having a trainable subject selected from a human (see col. 3:5-25).

Claim 17: The Hall-Tipping reference provides a teaching of providing a performance system (see Abstract "exercise bicycle"), activating the performance system (see Abstract); recording at least one parameter of the performance system (see col. 4:25-35 "Speed of villain" and col. 2:40-55 and col. 3:5-25 "difficulty level"), determining at least one point of efficiency parameter with respect of a state of accommodation by changing at least one parameter of the performance system until at least one parameter of the subject substantially changes beyond a given tolerance function (see Hall-Tipping col. 6:1:-9, col. 5:35-45 "optimal level of activity"); determining a range of tolerance surrounding the point of efficiency (see Hall-Tipping col. 5:35-45 Upper and lower heart rate and FIG. 2 Maximum and Minimum aerobic heart rate); training

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said trainable subject within said range of tolerance of said point of efficiency with respect to a state of accommodation (see col. 6:9-23). The Hall-Tipping reference provides a teaching where the efficiency is determined by a linear proportional rate of change in the at least one parameter (see FIG 3 and col. 5:40-60). The Hall-Tipping reference does not provide teaching of training said subject until exhaustion occurs. However, the Stratton et al reference provides a teaching of training said subject until exhaustion occurs (see Stratton et al page 1649 item "Study Protocol). Therefore, it would have been obvious to one of ordinary skilled in the art to include the feature of of training said subject until exhaustion occurs, as taught by Stratton et al, would increase the user's peak cardiac output (see Stratton et al page 1653).

Response to Arguments

2. Applicant's arguments filed 06/26/2008 have been fully considered but they are not persuasive.

3. The applicant argues that the Hall-Tipping reference fails to provide a teaching for the feature of "the efficiency is determined by a linear proportional rate of change in the at least one parameter." The examiner respectfully disagrees. The Hall-Tipping reference provides a teaching where point of efficiency is determined continuously over a period of time (see FIG. 3 item "warm-up"). The FIG 3 in the Hall-Tipping reference suggests that the efficiency (heartbeat) is determined over a change in time (rate of change) and the change in the efficiency is linearly proportional (see FIG 3).

4. The applicant also argues that the claimed invention is different from the prior since the claimed system allows an individual user to demonstrate his/her level of efficiency (see applicant's argument page 11) and where the performance of the individual is used to develop the linear proportional rate of change in a certain parameter (see applicant's argument page 12, 13) . The examiner respectfully disagrees. The current claim language does not explicitly

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link the point of efficiency to any user or any trainee. The current claim language only requires that the efficiency is linearly proportional to the rate of change.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT J. UTAMA whose telephone number is (571)272-1676. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pezzuto can be reached on (571)272-6996. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/R. J. U./
Examiner, Art Unit 3714

/XUAN M. THAI/
Supervisory Patent Examiner, Art Unit 3714